

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P102491WO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/GB2004/001424	International filing date (day/month/year) 02/04/2004	(Earliest) Priority Date (day/month/year) 04/04/2003
Applicant EATON LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☒ Certain claims were found unsearchable (See Box II).

3. ☒ Unity of invention is lacking (see Box III).

4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

FLUID DISTURBANCE DAMPING IN FLUID DRIVEN ACTUATION DEVICES

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/001424A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B62D5/06 F16L55/45 F16L11/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B62D F16L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	GB 2 265 959 A (FORD MOTOR CO) 13 October 1993 (1993-10-13) page 1, lines 11-19 page 3, line 213 figures 2-5	1-3,5-8, 11 4,13-17, 19-29
X	US 6 076 557 A (CARNEY THOMAS JAMES) 20 June 2000 (2000-06-20) column 8, line 11 column 9, lines 29-67 figures 34-37	1,5-7,11
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

20 September 2004

Date of mailing of the international search report

11.10.04

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Durrenberger, X

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/001424

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 2004/040187 A (KALTSOUNIS NICHOLAS O ; DANA CORP (US); CORTESE MARY (US); DARRAH MATT) 13 May 2004 (2004-05-13) page 1, line 24 page 3, line 1 - page 5, line 18 figures	1
Y	US 4 285 534 A (KATAYAMA TOSHIYUKI ET AL) 25 August 1981 (1981-08-25) cited in the application	4
A	column 2, lines 30-33; figures	1
Y	GB 1 079 389 A (GEN MOTORS CORP) 16 August 1967 (1967-08-16) page 3, left-hand column, line 4 - right-hand column, line 123 figures	13-17, 19-29
Y	US 6 279 613 B1 (CHEN YUNGRWEI ET AL) 28 August 2001 (2001-08-28) column 2, lines 33-35 column 6, lines 11-60; figures	14,25,28
A	DE 35 10 267 A (TOYOTA MOTOR CO LTD) 3 October 1985 (1985-10-03) abstract; figures	13,27

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Claims 9, 10 and 12 are appended on claim 1, these claims solely define features relating to a method of using the damping arrangement of claim 1. These claims do not confer any supplementary definition to the subject-matter of claim 1, they are therefore unclear and do thereby not fulfil the requirements of article 6 PCT.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/001424

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 2265959	A	13-10-1993	NONE	
US 6076557	A	20-06-2000	AU 4340399 A EP 1095226 A1 WO 9964778 A1	30-12-1999 02-05-2001 16-12-1999
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US 4285534	A	25-08-1981	NONE	
GB 1079389	A	16-08-1967	DE 1475701 A1	18-12-1969
US 6279613	B1	28-08-2001	US 6123108 A US 6085792 A AU 8122901 A BR 0113205 A CA 2419119 A1 EP 1309814 A1 JP 2004506860 T WO 0214730 A1 US 6269841 B1 AU 745077 B2 AU 7173498 A BR 9809424 A CA 2287865 A1 EP 0979371 A1 JP 2001522442 T US 5983946 A WO 9849487 A1 US 6089273 A	26-09-2000 11-07-2000 25-02-2002 01-07-2003 21-02-2002 14-05-2003 04-03-2004 21-02-2002 07-08-2001 14-03-2002 24-11-1998 13-06-2000 05-11-1998 16-02-2000 13-11-2001 16-11-1999 05-11-1998 18-07-2000
DE 3510267	A	03-10-1985	JP 60201194 A DE 3510267 A1	11-10-1985 03-10-1985